RESOLVED, that Queens College award Carol Fredericks Jantzen’ 67 and ’70, the degree of Doctor of Science, *honoris causa*, at the college’s annual commencement ceremony on May 29, 2014.

EXPLANATION: Dr. Jantzen has had a long and prestigious career in the field of high level nuclear waste disposal. The societal importance of the problems she has helped resolve deserve appropriate recognition from her *alma mater*, Queens College.

Carol Fredericks Jantzen

Carol Fredericks Jantzen (BA ’67 and MS ’70, Geology) is truly one of Queens College’s outstanding alumnae. After receiving her PhD in Materials Science from the State University of New York at Stony Brook, she did postdoctoral work at Aberdeen University, where she was introduced to the problems of high-level nuclear waste (HLNW) disposal, which is weapons-grade material, not the relatively benign power plant leftovers. What to do with this nuclear waste is called “closing the nuclear cycle.”

For the past thirty years, Dr. Jantzen has been affiliated with the Savannah River National Laboratory, working on both the theory and the practice of HLNW disposal. She has reached the highest grade level a scientist can achieve at the Savannah Lab—Level 40: Consulting Scientist—and there are only two scientists at this level at any one time. Dr. Jantzen developed the control system for the world’s largest HLNW vitrification facility based on thermodynamic geochemical models. In other words, she led the team that closed the nuclear cycle.

Dr. Jantzen is a well-known and respected figure in her field with approximately 300 publications and eleven patents to her credit. She was elected President of the American Ceramic Society, the first woman to serve in that position. Last year she was appointed to the National Academy of Sciences’ Board on Nuclear and Radiation Studies.

In a period of over seven years, Dr. Jantzen received the George Westinghouse Corporate Gold Award of Excellence for outstanding scientist three times, the only person to receive this prestigious award so often. She recently was honored with the Savannah River National Laboratory Orth Award for Technical Excellence and the Wendell Weart Lifetime Achievement Award in Waste Management from Sandia Labs. Her other awards include Distinguished Life Membership in the American Ceramic Society, the Alfred Victor Bleininger Award of Excellence, the D.T. Rankin Award from the Nuclear and Environmental Technology Division of the American Ceramic Society, and the Distinguished Scientist Award from Citizens for Nuclear Technology Awareness.

The importance of the problems that Dr. Jantzen has tackled and successfully resolved makes her exceptionally worthy of receiving an honorary degree from Queens College.